

**PART Regulation 3**  
**Ambient Air Quality Standards**

**REGULATION 3.01** ~~Purpose of Ambient Air Quality Standards and Expression of~~  
~~Non-Degradation Intention~~

**Air Pollution Control District of Jefferson County**  
**Jefferson County, Kentucky**

**Relates To:** KRS Chapter 77 Air Pollution Control

**Pursuant To:** KRS Chapter 77 Air Pollution Control

**Necessity And Function:** KRS 77.180 ~~authorizes provides that~~ the Air Pollution Control Board ~~to adopt may make~~ and enforce all ~~needful~~ orders, rules, and regulations necessary or proper to accomplish the purposes of KRS Chapter 77. This regulation ~~establishes states the purpose of~~ District ambient air quality standards, the methods for measuring air contaminants, and the ~~an expression of non-degradation~~ intention of the ~~Air Pollution Control Board to prohibit further~~ significant and avoidable deterioration of air quality.

**SECTION 1 Definitions**

Terms used in this regulation that are not defined in this regulation shall have the meaning given them in Regulation 1.02 *Definitions*

**SECTION 21 Purpose**

The purpose of an ambient air quality standards is to establish a concentration, including a time-averaging interval over which that concentration is measured, for a particular air contaminant ~~mean those levels of air quality that which~~ the Board determines is ~~judges are~~ necessary, with an adequate margin of safety, to protect ~~the~~ public health and welfare from any known or anticipated adverse effects of that air ~~contaminant~~ pollution. Such standards are subject to revision, and additional standards may be promulgated as the Board deems necessary to protect the public health and welfare.

**SECTION 32 Non-degradation Intention**

In ~~establishing an ambient air quality the establishment of these~~ standards, it is the intention of the Board to prohibit further significant and avoidable deterioration of air quality in areas where air quality presently exists ~~that which~~ is numerically equal to or is better than ~~that the~~ standards expressed herein.

**SECTION 43 General Prohibition**

A ~~No~~ person shall not cause or allow the emission of an air contaminant that would violate, or interfere with the attainment or maintenance of, an ambient air quality standards ~~as specified in this regulation.~~

## SECTION 5 Ambient Air Quality Standards

	Air Contaminant	Primary Standards	Averaging Times	Secondary Standards
5.1	<b>Carbon Monoxide</b>			
5.1.1		9 ppm (10 mg/m <sup>3</sup> )	8-hour <sup>1</sup>	None
5.1.2		35 ppm (40 mg/m <sup>3</sup> )	1-hour <sup>1</sup>	None
5.2	<b>Lead</b>	1.5 µg/m <sup>3</sup>	Quarterly Average	Same as Primary
5.3	<b>Nitrogen Dioxide</b>	0.053 ppm (100 µg/m <sup>3</sup> )	Annual (Arithmetic Mean)	Same as Primary
5.4	<b>Particulate Matter</b>			
5.4.1	(PM <sub>10</sub> )	50 µg/m <sup>3</sup>	Annual <sup>2</sup> (Arithmetic Mean)	Same as Primary
5.4.2		150 µg/m <sup>3</sup>	24-hour <sup>1</sup>	
5.5	<b>Particulate Matter</b>			
5.5.1	(PM <sub>2.5</sub> )	15 µg/m <sup>3</sup>	Annual <sup>3</sup> (Arithmetic Mean)	Same as Primary
5.5.2		65 µg/m <sup>3</sup>	24-hour <sup>4</sup>	
5.6	<b>Ozone</b>			
5.6.1		0.08 ppm	8-hour <sup>5</sup>	Same as Primary
5.6.2		0.12 ppm	1-hour <sup>6</sup>	Same as Primary
5.7	<b>Sulfur Oxides</b>			
5.7.1		0.03 ppm	Annual (Arithmetic Mean)	
5.7.2		0.14 ppm	24-hour <sup>1</sup>	
5.7.3			3-hour <sup>1</sup>	0.5 ppm (1300 µg/m <sup>3</sup> )

1 Not to be exceeded more than once per year.

2 To attain this standard, the expected annual arithmetic mean PM<sub>10</sub> concentration at each monitor within an area must not exceed 50 µg/m<sup>3</sup>.

3 To attain this standard, the 3-year average of the annual arithmetic mean PM<sub>2.5</sub> concentrations from single or multiple community-oriented monitors must not exceed 15 µg/m<sup>3</sup>.

4 To attain this standard, the 3-year average of the 98<sup>th</sup> percentile of 24-hour concentrations at

each population-oriented monitor within an area must not exceed  $65 \mu\text{g}/\text{m}^3$ .

5 To attain this standard, the 3-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area over each year must not exceed 0.08 ppm.

6 The standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above 0.12 ppm is  $\leq 1$ , as determined by 40 CFR Part 50 Appendix H. The 1-hour ozone standard shall be in effect until June 15, 2005.

## **SECTION 6 Applicability of Ambient Air Quality Standards**

The ambient air quality standards shall apply, be achieved, and maintained in Jefferson County, Kentucky.

## **SECTION 7 Methods of Measurement**

The air contaminants listed in sections 5.1 to 5.7 shall be measured by the reference or equivalent methods and at the frequency specified in EPA regulations on Ambient Air Quality Surveillance (40 CFR Parts 50, 53, and 58).

## **SECTION 8 Savings Clause**

Any emission standard that had been established pursuant to Regulation 3.04 *Ambient Air Quality Standards* section 1.7, 2.7, 2.8, or 2.9 and is reflected in a permit condition as of [insert the effective date of Version 4 of this regulation] shall remain in effect until replaced with an emission standard established pursuant to Regulation 5.21.

Adopted v1/4-19-72; effective 4-19-72; amended v2/9-1-76, v3/6-13-79.